

21. Check the float level as described in this chapter.

22. Install the carburetor heater (A, **Figure 41**) and collar (B). The stepped end of the collar must be toward the carburetor.

23. Install the carburetor as described in this chapter.

24. Adjust the pilot screw as described under *Carburetor Adjustments* in this chapter.

### CARBURETOR FLOAT LEVEL INSPECTION

The fuel valve and float maintain a constant fuel level in the carburetor float bowl. Because the float level affects the fuel mixture throughout the engine's operating range, the level must be within specification.

The carburetor must be removed and partially disassembled for this inspection.

1. Remove the carburetor as described in this chapter.
2. Remove the float bowl mounting screws (A, **Figure 42**) and float bowl. Do not remove the O-ring from the float bowl groove.
3. Hold the carburetor so the fuel valve just touches the float arm without pushing it down. Measure the distance from the carburetor body gasket surface to the float (**Figure 43**) using a float level gauge, ruler or vernier caliper. Refer to **Table 1** for the float level specification.
4. The float is non-adjustable. If the float level is incorrect, check the float pin and fuel valve for damage. If these parts are in good condition, replace the float and remeasure the float level.
5. Install the float bowl, O-ring and its mounting screws (A, **Figure 42**). Tighten the mounting screws securely.
6. Install the carburetor as described in this chapter.

### CARBURETOR ADJUSTMENTS

#### Idle Speed Adjustment

Refer to Chapter Three.

#### Pilot Screw Adjustment

The pilot screw (A, **Figure 44**) is preset by the manufacturer. Routine adjustment is not necessary

unless the pilot screw was removed or replaced or the carburetor was overhauled.

**WARNING**

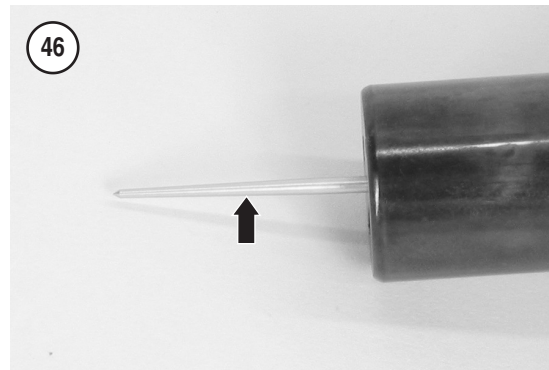
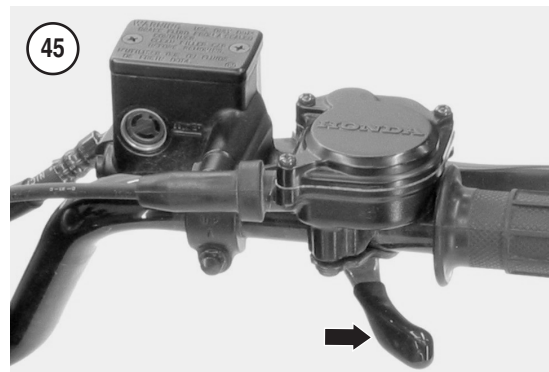
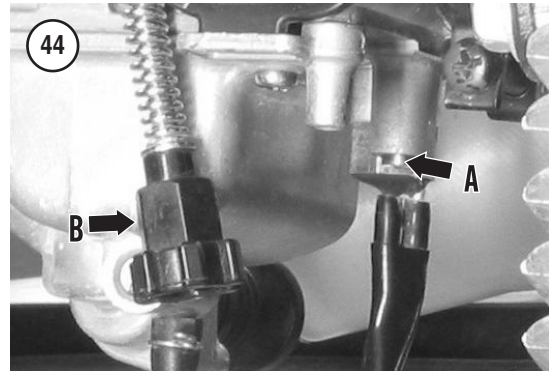
*Do not run the engine in an enclosed garage or area while adjusting the pilot screw in this procedure. Doing so will cause carbon monoxide gas to build up in the garage. Dangerous levels of carbon monoxide gas will cause loss of consciousness and death in a short time.*

1. Clean the air filter as described in Chapter Three.
2. Connect a tachometer to the engine following the manufacturer's instructions.

**NOTE**

*To accurately detect speed changes during this adjustment, use a tachometer with graduations of 100 rpm or smaller.*

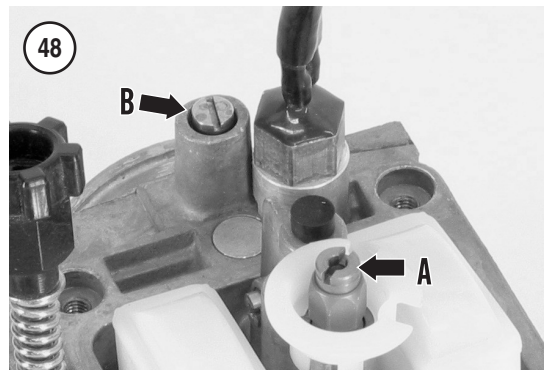
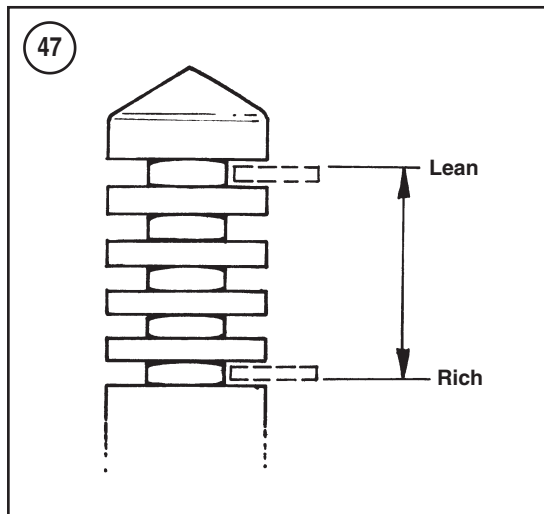
3. Turn the pilot screw (A, **Figure 44**) clockwise until it *lightly* seats, then back it out the number of turns listed in **Table 1**.
4. Start the engine and warm it to normal operating temperature.
5. Open and release the throttle lever (**Figure 45**) a few times, making sure it returns to its closed position. If necessary, turn the engine off and adjust the throttle cable as described in Chapter Three.
6. With the engine idling, turn the idle speed screw (B, **Figure 44**) to set the engine idle speed to the rpm listed in **Table 1**.
7. Turn the pilot screw (A, **Figure 44**) in or out to obtain the highest engine idle speed.
8. Turn the idle speed screw (B, **Figure 44**) to reset the engine idle speed to the rpm listed in **Table 1**.
9. While reading the tachometer, turn the pilot screw (A, **Figure 44**) in slowly until the engine speed drops 100 rpm.
10. Open and close the throttle lever a few times while checking the idle speed reading. The engine must idle within the speed range listed in **Table 1**. If necessary, readjust the idle speed with the idle speed screw (B, **Figure 44**).
11. Turn the engine off and remove the tachometer.



### Jet Needle Adjustment

The jet needle (**Figure 46**) controls the air/fuel mixture between 1/4 and 3/4 throttle openings. The jet needle position may be changed to affect the air/fuel mixture.

1. Remove the carburetor as described in this chapter.
2. Remove the vacuum cylinder and then remove the jet needle (**Figure 37**) as described under *Carburetor Disassembly* in this chapter.

**NOTE**

Record the jet needle clip position before removing it. Refer to **Table 1** for the standard jet needle clip position.

3. Raising the needle (lowering the clip) will enrich the mixture between 1/4 and 3/4 throttle openings,

while lowering the needle (raising the clip) will lean the mixture. Refer to **Figure 47**.

4. Install the jet needle and vacuum cylinder as described under *Carburetor Assembly* in this chapter.

**High Altitude Adjustment**

Honda specifies two different jetting specifications for TRX350 models: standard and high altitude. Use the standard jet when operating the vehicle below 5000 ft. (1500 m). Use the high altitude jet when operating the vehicle between 3000-8000 ft. (1500-2500 m).

1. Remove the carburetor as described in this chapter.
2. Remove the float bowl mounting screws (A, **Figure 42**) and float bowl (B). Do not remove the gasket from the float bowl groove.
3. Remove the standard main jet (A, **Figure 48**) and install the high altitude main jet as listed in **Table 1**.
4. Turn the pilot screw (B, **Figure 48**) clockwise 3/4 turn.
5. Reassemble and install the carburetor.
6. Adjust the idle speed as described in Chapter Three. The idle speed is the same for standard and high altitude carburetor settings.

**CAUTION**

If the ATV is operated below 3000 ft. (1000 m) with the high altitude jetting, engine overheating may occur. If the ATV will be operated below this elevation, install the standard main jet and turn the pilot screw out 3/4 turn.

**CARBURETOR HEATER****Carburetor Heater Testing**

The carburetor heater may be tested while it is installed on the carburetor, or removed from the carburetor.

1. To test the carburetor heater while it is installed on the ATV, remove the right side cover as described in Chapter Fifteen.
2. Disconnect the electrical lead from the carburetor heater connector (**Figure 49**).
3. Connect ohmmeter leads to the two terminals of the carburetor heater connector lead. Replace the

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